World Health Organization’s
International Classification of Diseases
and Related Health Problems - 10th Edition

ICD-10

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Purpose of Presentation

• Describe ICD-10

• Discuss ICD-9, ICD-10 & DSM 5

• Demonstrate ICD-10 and ICD-10-CM

• Introduce ICD-11
Overview

• ICD as an unified diagnostic system
• ICD coding history and significance
• ICD in the US
• ICD-10 description
• ICD-10. Chapter V: Mental and Behavioral Disorders
• Cultural issues in ICD-10
• Coding
• ICD and DSM (ICD-9, ICD-10 and DSM 5)
• Preview of ICD-11
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  • Preview of ICD-11
Globalization of Healthcare & Psychology

• *Past* – prevalence of U.S. and English language in psychology, focus on mental health only

• *Present* – expanding beyond the U.S.; internationalization as well as local contexts, expanding to focus on all of healthcare

• Psychology’s expansion must still be relevant to localized and practical needs

(Bullock, 2012; Goodheart, 2013)
ICD: Key Facts

- Global healthcare information standard (mortality & morbidity) > 100 countries

- ~70% of world’s health expenditure ($3.5 billion) is based ICD
  Endorsed by 43 member nations of World Health Assembly (1990).

- Used by WHO member states since 1994

- *The standard of diagnostic nomenclature*
  
  (Goodheart, 2013; World Health Organization)
ICD: Key Purposes and Applications

- Health management (& policy)
- Epidemiology
- Clinical purposes
- Reimbursement and resource allocation

World Health Organization
Benefits of ICD-10

• Storage, retrieval, analysis and interpretation of data

• Sharing and comparisons:
  ✓ Within populations
  ✓ Between populations
  ✓ Compilation of international data

• Health records

• Tracking and trending of diseases

• **Better and more descriptive clinical information**

Better healthcare for patients

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
Benefits of ICD-10 (cont.)

• More diagnostic opportunities

• Greater level of clinical detail

• Revised descriptions of "diseases" focusing on symptoms and disorders

• Allows space for additional codes and greater specificity

• Better fit for health information technology systems aka electronic health records

(Goodheart, 2013)
Diagnostic Coding

• DSM-IV-TR/5 used by behavioral health providers for diagnostic coding

• DSM-IV-TR/5 (& ICD-9) and ICD-10 codes closely coordinated: frequent but not always direct match

• ICD-10 will be the only code permitted for billing on and after October 1, 2015

Meaning…

No ICD-10 = No reimbursement = No practice or profession
ICD-10 Limitations: “There are too many codes”

- ~ 50% of all ICD-10CM (Clinical Modification) codes are related to the musculoskeletal system
- ~ 25% of all ICD-10CM codes are related to fractures
- ~ 36% of all ICD-10CM codes are used to distinguish “right” vs. “left”
- ~ 70% of all charges are made for only 5% of codes

Only a very small percentage of the codes will be used by most providers.
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120+ years of ICD History

1893 ICD-1 International List of Causes of Death
1909 ICD-2 International List of Causes of Sickness and Death
1929 ICD-4 Categories based on etiology
1948 ICD-6 International Classification of Diseases, Injuries and Causes of Death
1975 ICD-9 Narrative descriptions of Mental & Behavioral disorders
1990 ICD-10 Mental, Psychoneurotic and Personality Disorders
2017 ICD-11
ICD: History

Early healthcare nomenclature - alphabetized lists of diseases

Classification systems organized according to topography and etiology

Stimulus for developing ICD:
- 1851 Great Exhibition, statisticians compared quantity/quality of goods
- First International Statistical conference (1853): comparison of causes of death across nations
- Succeeded by International Statistical Institute (ISI)
ICD: History (cont.)

1893 ISI adopted 1st edition of international classification system: *The International List of Causes of Death*

1899 “Causes of Death” adopted by some American and European countries

New ICD edition approximately every 10 years

ICD-2 1909 (1910-1920) renamed: International Classification of Causes of Sickness and Death

ICD-4 1929 (1930-1938), transfer to categories based on etiology
ICD: History (cont.)

ICD-5 1938 (1939-1948), comparability between successive ICD versions

ICD-6 1948 (1949-1957), WHO entrusted ICD as its criterion: International Classification of Diseases, Injuries, and Causes of Death:
- For the first time included morbidity
- New main category: Mental, Psychoneurotic, and Personality Disorders

ICD-8 1965 (1968-1978) Expanded cross-indexing hospital clinical records
  • 1978 refined classification and diagnosis of mental disorders
  • 1982 diagnostic instruments and algorithms shaped and refined

ICD-10 1990 (1994-present) 20,000 scientific articles citations

ICD-11 expected 2017
120+ years of ICD History

1893  ICD-1
International List of Causes of Death

1909  ICD-2
International List of Causes of Sickness and Death

1929  ICD-4
Categories based on etiology

1948  ICD-6
International Classification of Diseases, Injuries and Causes of Death

1975  ICD-9
Narrative descriptions of Mental & Behavioural disorders

1990  ICD-10
Mental, Psychoneurotic and Personality Disorders

2017  ICD-11
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ICD Implementation in the US

• 1979 - ICD-9-CM research and health statistics in the US

• 1983 - Reporting healthcare services for reimbursement in the US

• 2013 - US begins using ICD-9-CM

• ICD-9-CM - can not support current needs for health information

• ICD-10-CM implementation October 1, 2015

• ICD-11-CM implementation January 1, 2016

(Goodheart, 2013)
ICD-10-CM: General Changes and Overall Improvements

- Greater pool of code numbers and diagnoses
- Combinations of codes used for symptom and diagnosis, and etiology and manifestations
- Guidelines to clarify priority of code assignments
- Subcategory titles are complete, no need to read previous codes to understand the meaning
## ICD-10-CM: General Changes and Overall Improvements (cont.)

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADHD of childhood</td>
<td>ADHD, predominantly inattentive type F90.0</td>
</tr>
<tr>
<td>ADHD without mention of hyperactivity</td>
<td>ADHD, predominantly hyperactive type F90.1</td>
</tr>
<tr>
<td>ADHD with hyperactivity</td>
<td>ADHD, combined type F90.2</td>
</tr>
<tr>
<td></td>
<td>ADHD, other type F90.8</td>
</tr>
<tr>
<td></td>
<td>ADHD, unspecified type F90.9</td>
</tr>
</tbody>
</table>

Important to note that there is NOT a point to point correspondence between ICD-9 and ICD-10
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### WHO Family of International Classifications

**Related Classifications**
- International Classification of Primary Care (ICPC)
- International Classification of External Causes of Injury (ICECI)
- The Anatomical, Therapeutic, Chemical (ATC) classification system with Defined Daily Doses (DDD)
- ISO 9999 Technical aids for persons with disabilities — Classification and Terminology
- International Classification for Patient Safety (ICPS)
- International Classification of Nursing Practice (ICNP)

**Reference Classifications**
- International Classification of Diseases (ICD)
- International Classification of Functioning, Disability and Health (ICF)

**Derived Classifications**
- International Classification of Diseases for Oncology, Third Edition (ICD-O-3)
- The ICD-10 Classification of Mental and Behavioural Disorders
- Application of the International Classification of Diseases to Dentistry and Stomatology, Third Edition (ICD-DA)
- Application of the International Classification of Diseases to Neurology (ICD-10-NA)
- International Classification of Functioning, Disability and Health, Children & Youth Version (ICF-CY)

*ICD-10 Interactive Self Learning Tool*  
(http://apps.who.int/classifications/apps/icd/icd10training/)
ICD-10: Brief Overview

• ICD-10 International version
  ✔~12,500 diagnostic codes
  ✔Used for mortality reporting in the US – 1999

• ICD-10 – CM (Clinical Modification) - US version
  ✔~69,000 diagnostic codes
  ✔22 Chapters
  ✔Chapter 5 – Mental/Behavioral (F01-F99)

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
ICD-10 Overview of Categories of Diseases

- Communicable diseases
- General diseases that affect the whole body
- Localized diseases arranged by body site
- Developmental diseases
- Injuries
- External causes

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
There are three volumes that comprise the ICD-10:

- Volume 1 – The Tabular List
- Volume 2 – The Instruction Manual
- Volume 3 – The Alphabetical Index
Volume 1, the Tabular List, is an alphanumeric listing of diseases, disease groups and health-related problems. It contains inclusion and exclusion notes and some coding rules.

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
Volume 2, the Instruction Manual, contains an introduction to the classification and instructions regarding how to use the classification to code death certificates, hospital medical records and other forms of health information.

INTERNATIONAL CLASSIFICATION OF DISEASES

3.1.2 Use of the tabular list of inclusions and four-character subcategories

Inclusion terms

Within the three- and four-character rubrics, there are usually listed a number of other diagnostic terms. These are known as “inclusion terms” and are given, in addition to the title, as examples of the diagnostic statements to be classified to that rubric. They may refer to different conditions or be synonyms. They are not a subclassification of the rubric.

Inclusion terms are listed primarily as a guide to the content of the rubrics. Many of the terms listed relate to important or common terms belonging to the rubric. Others are borderline conditions or sites listed to distinguish the

...guidelines for certification and rules for mortality coding (i.e. causes of death) ...guidelines for recording and coding for morbidity data (e.g. hospital statistics)
Volume 3, the Alphabetical Index, is an alphabetical list of the diseases and conditions which have codes in the Tabular List.

There are more entries in the Index than there are in the Tabular List because some diseases have more than one name and some diseases are grouped under one code.

It also contains:

- guidance on selecting the appropriate codes for many conditions not displayed in the Tabular List
- a Table of Neoplasms
- an Index of external causes of injury
- a Table of drugs and chemicals.
ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)

CAUTION: A “valid” (billable) code in F chapter includes 4-6 characters including the letter
ICD 10 –CM Online PDF

http://www.cdc.gov/nchs/icd/icd10cm.htm
ICD-10 Organization

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
ICD-10 at a Glance: 22 Chapters

<table>
<thead>
<tr>
<th>Chapter #</th>
<th>Chapter Title</th>
<th>Alphab. code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Certain infectious and parasitic diseases</td>
<td>A,B</td>
</tr>
<tr>
<td>II</td>
<td>Neoplasms</td>
<td>C,D</td>
</tr>
<tr>
<td>III</td>
<td>Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism</td>
<td>D</td>
</tr>
<tr>
<td>IV</td>
<td>Endocrine, nutritional and metabolic diseases</td>
<td>E</td>
</tr>
<tr>
<td>V</td>
<td><strong>Mental and behavioural disorders</strong></td>
<td>F</td>
</tr>
<tr>
<td>VI</td>
<td>Diseases of the nervous system</td>
<td>G</td>
</tr>
<tr>
<td>VII</td>
<td>Diseases of the eye and adnexa</td>
<td>H</td>
</tr>
<tr>
<td>VIII</td>
<td>Diseases of the ear and mastoid process</td>
<td>H</td>
</tr>
<tr>
<td>IX</td>
<td>Diseases of the circulatory system</td>
<td>I</td>
</tr>
<tr>
<td>X</td>
<td>Diseases of the respiratory system</td>
<td>J</td>
</tr>
<tr>
<td>XI</td>
<td>Diseases of the digestive system</td>
<td>K</td>
</tr>
</tbody>
</table>
## ICD-10 at a Glance: 22 Chapters (Cont.)

<table>
<thead>
<tr>
<th>Chapter #</th>
<th>Chapter Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>XII</td>
<td>Diseases of the skin and subcutaneous tissue</td>
</tr>
<tr>
<td>XIII</td>
<td>Diseases of the musculoskeletal system and connective tissue</td>
</tr>
<tr>
<td>XIV</td>
<td>Diseases of the genitourinary system</td>
</tr>
<tr>
<td>XV</td>
<td>Pregnancy, childbirth and the puerperium</td>
</tr>
<tr>
<td>XVI</td>
<td>Certain conditions originating in the perinatal period</td>
</tr>
<tr>
<td>XVII</td>
<td>Congenital malformations, deformations and chromosomal abnormalities</td>
</tr>
<tr>
<td>XVIII</td>
<td>Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified</td>
</tr>
<tr>
<td>XIX</td>
<td>Injury, poisoning and certain other consequences of external causes</td>
</tr>
<tr>
<td>XX</td>
<td>External causes of morbidity and mortality</td>
</tr>
<tr>
<td>XXI</td>
<td>Factors influencing health status and contact with health services</td>
</tr>
<tr>
<td>XXII</td>
<td>Codes for special purposes</td>
</tr>
</tbody>
</table>
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Introduction to Chapter V

“Mental and neurological disorders put greater disease burden than any other category, except communicable diseases.”

(WHO, 2008)
Chapter V: Mental and Behavioral Disorders

• Provides codes for mental and behavioral disorders

• Chapter uniqueness: descriptions of the disorders coded to each category that define the contents of the categories.

• Codes range: F00–F99.
Parts of Chapter V

• Clinical Descriptions and Diagnostic Guidelines for general clinical, educational, and service use

• Diagnostic Criteria for Research

• Chapter V (F) - for compatibility with other classifications
ICD-10: Disorder Description

- Main clinical features + important less specific features
- Number of possible diagnoses increases
- Overall diagnostic picture should not be clouded
- “Provisional”/“Tentative” diagnosis (i.e., criteria partially met)
- Symptom duration (general guideline)
- Mental disorders arranged by major common themes
- Descriptions and guidelines - set of symptoms and comments
ICD-10: Terminology: Basics

- “Disorder” vs. “disease”/“illness”

- *Disease/illness* – particular abnormal condition of structure/function that affects part or all organism

- *Disorder* - set of symptoms or behaviors associated with distress and interference with personal functions

**FOCUS IS ON DISORDERS**

**DISORDERS ARE FOCUSED ON SYMPTOMS**
ICD-10: Terminology: Basics

• Paradoxically, ICD is called International Classification of DISEASES

• “Psychogenic” not used - different meanings in different languages and psychiatric traditions

• If a external problem exists but does not affect the person or others, it is not considered a disorder and is not included in the diagnosis
ICD-10: Terminology (Cont.)

• “Psychosomatic” not used – as it may imply that psychological factors play no role in occurrence, course, and outcome of other diseases that are not so described

• Psychosomatic Disorders in other classifications:
  • F45 Somatoform disorders
  • F50 Eating disorders
  • F52 Sexual dysfunction
  • F54 Psychological or behavioral factors associated with disorders or diseases classified elsewhere
ICD-10: Terminology (Cont.)

• “Impairment”, “disability”, and “handicap” used in accordance with International Classification of Impairments, Disabilities, and Handicaps (Geneva, WHO, 1980):
  ✓ *Impairment* - “loss or abnormality … of structure or function”.
  ✓ *Disability* - “restriction or lack… of ability to perform an activity in the manner or within the range considered normal for human being”.
  ✓ *Handicap* - “disadvantage for an individual… that prevents or limits the performance of a role that is normal … for that individual”
ICD-10: Multiple Diagnoses

• Record as many diagnoses as necessary to cover the clinical picture.

• One main or primary diagnosis and others as subsidiary/additional/secondary....

• Most relevant diagnosis goes first (often the cause of consultation/contact of health services or “life-time” diagnosis)

• Any diagnosis in the health record should be included. Consider recording it/them in the history portion of the evaluation and place it/them in the diagnosis section.

• Maybe of value to place origin of diagnosis (e.g., MD)
ICD-10: Multiple (continued)

• If in doubt, list diagnoses in the order in which they appear in ICD.

• Recording diagnoses from other than chapter V is strongly recommended (e.g., G and R codes)

• List all diagnoses found in the health record in the Dx section of report, again according to importance for the situation which record the present evaluation

• Patient self-report, even if behavioral signs support the report, does NOT meet the sufficient criteria for a MEDICAL diagnosis. This information should be provided in the historical record and not in the diagnosis section.
Defining Primary & Parent Codes

- Primary = Core
- Parent = Etiology of pursued code
- Suggested Order = 1. Primary code
  2. Parent code
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Cultural Issues in ICD-10

- Psychiatric diagnosis is based on cultural, social, biological and psychological factors

- Increased interest in cultural framework of prospective diagnostic systems

- In contrast, the presence of culture in ICD-10 is limited (vs. the DSM 5)

- List of culture-specific disorders in Diagnostic Criteria for Research but not in the CM version

Mezzich et al., 2001
Cultural Issues in ICD-10

Some indirect cultural relevance:

- Multi-axial Presentation of ICD-10
- Primary Health Version
- Chapter XXI Factors Influencing Health Status and Contact with Health Services
# Culture-Specific Disorders in ICD-10

<table>
<thead>
<tr>
<th>Disorder</th>
<th>Culture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Amok</td>
<td>Malaysian</td>
</tr>
<tr>
<td>2. Dhat</td>
<td>Indian</td>
</tr>
<tr>
<td>3. Koro</td>
<td>Indonesia, Thailand</td>
</tr>
<tr>
<td>4. Latah</td>
<td>Southeast Asia</td>
</tr>
<tr>
<td>5. Ataque de Nervios</td>
<td>Latin American Caribbean</td>
</tr>
<tr>
<td>6. Pa-leng (Frigophobia)</td>
<td>China, Southeast Asia</td>
</tr>
<tr>
<td>7. Piblokto</td>
<td>Inughuit societies living in Arctic Circles</td>
</tr>
<tr>
<td>8. Susto, Espanto</td>
<td>Latin American</td>
</tr>
<tr>
<td>9. Taijin Kyofusho</td>
<td>Japanese</td>
</tr>
<tr>
<td>10. Ufufuyane, Saka</td>
<td>Kenya, Southern Africa</td>
</tr>
<tr>
<td>11. Uqamairineq</td>
<td>Inuit</td>
</tr>
<tr>
<td>12. Windigo</td>
<td>Algonquian peoples in Atlantic coast and Great Lakes region in US and Canada</td>
</tr>
</tbody>
</table>
Culture in Regional and National Adaptations of ICD-10

Examples of attempts to articulate the international reference with local realities and needs:

- Chinese Classification of Mental Disorders
- Japanese Clinical Modification of ICD-10
- Latin American Guide for Psychiatric Disorders
- Cuban Glossary of Psychiatry
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ICD-10 Coding

Alpha (Except U)  Numeric

F 1 3

Category (Core Code)

2 2 1

Etiology, Anatomic Site, Severity

Additional Characters

Added code extensions for obstetrics, injuries and external causes of injury

CAUTION: A “valid” (billable) code in F chapter includes 4-6 characters including the letter

Blue Cross Blue Shield of Michigan (2014)
ICD-10 Update. Mental and Behavioral Health ICD-10-CM Codes
Coding steps:

1. Determine the conditions that need to be coded

2. Use the Alphabetical Index (Vol 3) to locate the condition and allocate the code

3. Use the Tabular List (Vol 1) to check correct code assignment (e.g. inclusion note, exclusion note)

4. Use the Instruction Manual (Vol 2) for any rules regarding the selection of a particular code for reporting mortality or morbidity data
ICD-10 Golden Coding Rules

Golden Coding Rule Number 1
Volumes 1 and 3 must be used together to correctly find codes for each case (e.g. cause of death or diagnosis)
Golden Coding Rule Number 2

The special disease categories take priority over the body system categories.
Golden Coding Rule Number 3

The dagger code (†) is used as the underlying cause of death. Never use the asterisk code (*) alone if the diagnosis being coded uses the dagger and asterisk convention.

Example:
G22* = Parkinsonism in diseases classified elsewhere
G22*, A52.1† = Syphilitic Parkinsonism
ICD-10 Golden Coding Rules

Golden Coding Rule Number 4

Be cautious of the spelling of the diseases you are coding since the Tabular List uses British spelling and the Alphabetical index uses American spelling. There are cross-references in the Index to guide you to the American spelling.
Revised Mental Health codes

• New concepts supported by ICD-10
  • Drug “use” vs. “dependence” vs. “abuse”
  • Bipolar II
  • Bipolar disorders: distinction current episode / most recent episode
  • Recurrent depressive disorder
  • Mood disorder related to physiologic condition
  • Adjustment insomnia
  • Adjustment reaction with withdrawal
  • Asperger's syndrome
  • Rett's syndrome
# Chapter V: Mental and Behavioral Disorders

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>F00-F09</strong> Mental disorders due to known physiological conditions</td>
<td><strong>F10-F19</strong> Mental and behavioral disorders due to psychoactive substance use</td>
</tr>
<tr>
<td><strong>F20-F29</strong> Schizophrenia, schizotypal, delusional, and other non-mood psychotic disorders</td>
<td><strong>F30-F39</strong> Mood (affective) disorders</td>
</tr>
<tr>
<td><strong>F40-F48</strong> Anxiety, dissociative, stress-related, somatoform and other non-psychotic mental disorders</td>
<td><strong>F50-F59</strong> Behavioral syndromes associated with physiological disturbances and physical factors</td>
</tr>
<tr>
<td><strong>F60-F69</strong> Disorders of adult personality and behavior</td>
<td><strong>F70-F79</strong> Intellectual disabilities</td>
</tr>
<tr>
<td><strong>F80-F89</strong> Pervasive and specific developmental disorders</td>
<td><strong>F90-F98</strong> Behavioral and emotional disorders with onset usually occurring in childhood and adolescence</td>
</tr>
<tr>
<td><strong>F99-F99</strong> Unspecified mental disorders</td>
<td><strong>F99-F99</strong> Unspecified mental disorders</td>
</tr>
</tbody>
</table>
Organic, including symptomatic, mental disorders (F00–F09)

F00  Dementia in Alzheimer disease
F01  Vascular dementia
F02  Dementia in other diseases classified elsewhere
F03  Unspecified dementia
F04  Organic amnesic syndrome, not induced by alcohol and other psychoactive substances
F05  Delirium, not induced by alcohol and other psychoactive substances
F06  Other mental disorders due to brain damage and dysfunction and to physical disease
F07  Personality and behavioral disorders due to brain disease, damage and dysfunction
F09  Unspecified organic or symptomatic mental disorder

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Organic, including symptomatic, mental disorders (F00–F09)

4\textsuperscript{th} Characters for use with categories F00-F09:

.0 Delirium, not superimposed on dementia
.1 Delirium, superimposed on dementia
.8 Other delirium
.9 Delirium, unspecified

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
DSM-5 Classification

Major and Mild Neurocognitive Disorders (602)

1 step

<table>
<thead>
<tr>
<th>Disorder, condition or problem</th>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Probable major neurocognitive disorder due to Alzheimer’s disease</td>
<td>294.11</td>
<td>F02.81</td>
<td>With behavioural disturbance</td>
</tr>
<tr>
<td>Code first 331.0 (G30.9) Alzheimer’s disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probable major neurocognitive disorder due to frontotemporal lobar degeneration</td>
<td>294.10</td>
<td>F02.80</td>
<td>Without behavioral disturbance</td>
</tr>
<tr>
<td>Code first 331.19 (G31.09) frontotemporal disease</td>
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<tr>
<td>Probable major neurocognitive disorder with Lewy bodies</td>
<td>331.9</td>
<td>G31.9</td>
<td>Possible major neurocognitive disorder due to Alzheimer’s disease</td>
</tr>
<tr>
<td>Code first 331.82 (G31.83) Lewy body disease</td>
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<tr>
<td>Probable major vascular neurocognitive disorder</td>
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</tr>
<tr>
<td>No additional medical code for vascular disease</td>
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<tr>
<td>Major neurocognitive disorder probably due to Parkinson’s disease</td>
<td>331.83</td>
<td>G31.84</td>
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<tr>
<td>Code first 332.0 (G20) Parkinson’s disease</td>
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</table>

2 step
# DSM-5 Classification

## Major and Mild Neurocognitive Disorders (602) (cont.)

### 1 step

<table>
<thead>
<tr>
<th>Disorder, condition or problem</th>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Description</th>
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<tr>
<td>Major Neurocognitive disorder due to traumatic brain injury (TBI)</td>
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<td>F02.80</td>
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<td>Major Neurocognitive disorder due to HIV infection</td>
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<td>Major Neurocognitive disorder due to Prion disease</td>
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<td>G31.84</td>
<td>Mild neurocognitive disorder due to Alzheimer’s disease</td>
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<td>Major Neurocognitive disorder due to Huntington’s disease</td>
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<td>Huntington’s disease</td>
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<td>Major Neurocognitive disorder due to another medical condition</td>
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<td>G31.84</td>
<td>Mild neurocognitive disorder due to medical condition</td>
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<td>331.83</td>
<td>G31.84</td>
<td>Mild neurocognitive disorder due to multiple medical conditions</td>
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### 2 step
### DSM-5 Classification

**Major and Mild Neurocognitive Disorders (602) (cont.)**

Probable major vascular neurocognitive disorder  
No additional medical code for vascular disease

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
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<td>290.40</td>
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<td>Possible major vascular neurocognitive disorder</td>
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<td>331.83</td>
<td>G31.84</td>
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<tr>
<td>799.59</td>
<td>R41.9</td>
<td>Unspecified neurocognitive disorder</td>
</tr>
</tbody>
</table>
Mental and behavioural disorders due to psychoactive substance use (F10–F19)

F10 due to use of alcohol
F11 due to use of opioids
F12 due to use of cannabinoids
F13 due to use of sedatives or hypnotics
F14 due to use of cocaine
F15 due to use of other stimulants, including caffeine
F16 due to use of hallucinogens
F17 due to use of tobacco
F18 due to use of volatile solvents
F19 due to multiple drug use and use of other psychoactive substances

CAUTION: ICD-10 codes presented (CORE CODES) = NON BILLABLE
Mental and behavioural disorders due to psychoactive substance use (F10–F19)

4th Characters for use with categories F10-F19:

.0 Acute intoxication
.1 Harmful use
.2 Dependence syndrome
.3 Withdrawal state
.4 Withdrawal state with delirium
.5 Psychotic disorder
.6 Amnesic syndrome
.7 Residual and late-onset psychotic disorder
.8 Other mental and behavioural disorders
.9 Unspecified mental and behavioural disorder

CAUTION: Some 4 digits codes NOT BILLABLE (i.e. F19.1 alone)

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
DSM-5 Classification

Substance-related and addictive disorders (481) (sample)

Alcohol use disorder
Specify if in early remission/ in sustained remission
Specify if in a controlled environment
Specify the severity:

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
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<tr>
<td>305.00</td>
<td>F10.10</td>
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<td>303.90</td>
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<td>Moderate</td>
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<td>303.90</td>
<td>F10.20</td>
<td>Severe</td>
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<td>303.00</td>
<td>F10.20</td>
<td>Alcohol intoxication</td>
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<td>F10.129</td>
<td>With use disorder, mild</td>
</tr>
<tr>
<td></td>
<td>F10.229</td>
<td>With use disorder moderate to severe</td>
</tr>
<tr>
<td></td>
<td>F10.929</td>
<td>Without use disorder</td>
</tr>
</tbody>
</table>
Schizophrenia, schizotypal and delusional disorders (F20–F29)

- **F20** Schizophrenia
- **F21** Schizotypal disorder
- **F22** Persistent delusional disorders
- **F23** Acute and transient psychotic disorders
- **F24** Induced delusional disorder
- **F25** Schizoaffective disorders
- **F28** Other nonorganic psychotic disorders
- **F29** Unspecified nonorganic psychosis

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
## DSM-5 Classification

**Schizophrenia spectrum and other psychotic disorders (87)**

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
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<th>Disorder, condition or problem</th>
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</thead>
<tbody>
<tr>
<td>301.22</td>
<td>F21</td>
<td>Schizotypal personality disorder</td>
</tr>
<tr>
<td>297.1</td>
<td>F22</td>
<td>Delusional disorder</td>
</tr>
<tr>
<td>298.8</td>
<td>F23</td>
<td>Brief psychotic disorder</td>
</tr>
<tr>
<td>295.40</td>
<td>F20.81</td>
<td>Schizophreniform disorder</td>
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<tr>
<td>295.90</td>
<td>F20.9</td>
<td>Schizophrenia</td>
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<tr>
<td>295.70</td>
<td>F25.0</td>
<td>Schizoaffective disorder, bipolar type</td>
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<tr>
<td>295.70</td>
<td>F25.1</td>
<td>Schizoaffective disorder, depressive type</td>
</tr>
<tr>
<td>293.81</td>
<td>F06.2</td>
<td>Psychotic disorder due to another medical condition, with delusions</td>
</tr>
<tr>
<td>293.82</td>
<td>F06.0</td>
<td>Psychotic disorder due to another medical condition, with hallucinations</td>
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<tr>
<td>293.89</td>
<td>F06.1</td>
<td>Catatonia associated with another mental disorder</td>
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<tr>
<td>293.89</td>
<td>F06.1</td>
<td>Catatonic disorder due to another medical condition</td>
</tr>
<tr>
<td>293.89</td>
<td>F06.1</td>
<td>Unspecified catatonia</td>
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<tr>
<td>298.8</td>
<td>F28</td>
<td>Other specified schizophrenia spectrum and other psychotic disorder</td>
</tr>
<tr>
<td>298.9</td>
<td>F29</td>
<td>Unspecified schizophrenia spectrum and other psychotic disorder</td>
</tr>
</tbody>
</table>
Mood [affective] disorders (F30–F39)

F30  Manic episode
F31  Bipolar affective disorder
F32  Depressive episode
F33  Recurrent depressive disorder
F34  Persistent mood [affective] disorders
F38  Other mood [affective] disorders
F39  Unspecified mood [affective] disorder
## DSM-5 Classification

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
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</thead>
<tbody>
<tr>
<td>296._ _</td>
<td>F31._ _</td>
<td>Bipolar I disorder</td>
</tr>
<tr>
<td>296._ _</td>
<td>F32._ _</td>
<td>Depressive disorders</td>
</tr>
</tbody>
</table>
Neurotic, stress-related and somatoform disorders (F40–F48)

F40  Phobic anxiety disorders
F41  Other anxiety disorders
F42  Obsessive-compulsive disorder
F43  Reaction to severe stress, and adjustment disorders
F44  Dissociative [conversion] disorders
F45  Somatoform disorders
F48  Other neurotic disorders

CAUTION: PTSD code F43.1 NOT BILLABLE
Valid code F43.10 (Found in DSM-5)
## DSM-5 Classification

### Anxiety disorders

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
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<tbody>
<tr>
<td>309.21</td>
<td>F93.0</td>
<td>Separation anxiety disorder</td>
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<tr>
<td>312.23</td>
<td>F94.0</td>
<td>Selective mutism</td>
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<tr>
<td>300.29</td>
<td>F40.2xx</td>
<td>Specific phobia (e.g. animal, natural environment, etc.)</td>
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<tr>
<td>300.23</td>
<td>F40.10</td>
<td>Social anxiety disorder</td>
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<tr>
<td>300.01</td>
<td>F41.0</td>
<td>Panic disorder</td>
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<tr>
<td>300.22</td>
<td>F40.00</td>
<td>Agoraphobia</td>
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<tr>
<td>300.02</td>
<td>F41.1</td>
<td>Generalized anxiety disorder</td>
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<tr>
<td>293.84</td>
<td>F06.4</td>
<td>Anxiety disorder due to another medical condition</td>
</tr>
<tr>
<td>300.09</td>
<td>F41.8</td>
<td>Other specified anxiety disorder</td>
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<tr>
<td>300.00</td>
<td>F41.9</td>
<td>Unspecified anxiety disorder</td>
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</tbody>
</table>

**CAUTION:** All specific phobia codes need 6 digits to be billable

16 valid specific phobia codes, DSM-5 only 8
<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
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<tbody>
<tr>
<td>300.3</td>
<td>F42</td>
<td>Obsessive-compulsive disorder</td>
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<tr>
<td>300.7</td>
<td>F45.22</td>
<td>Body dysmorphic disorder</td>
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<tr>
<td>300.3</td>
<td>F42</td>
<td>Hoarding disorder</td>
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<tr>
<td>312.39</td>
<td>F63.3</td>
<td>Trichotillomania</td>
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<tr>
<td>698.4</td>
<td>L98.1</td>
<td>Excoriation</td>
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<tr>
<td>294.8</td>
<td>F06.8</td>
<td>Obsessive-compulsive and related disorder due to another medical condition</td>
</tr>
<tr>
<td>300.3</td>
<td>F42</td>
<td>Other specified obsessive-compulsive and related disorder</td>
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</table>
## DSM-5 Classification

### Trauma- and stressor-related disorders

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<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
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</thead>
<tbody>
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<td>313.89</td>
<td>F94.1</td>
<td>Reactive attachment disorder</td>
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<tr>
<td>313.89</td>
<td>F94.2</td>
<td>Disinhibited social engagement disorder</td>
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<td>309.81</td>
<td>F43.10</td>
<td>Posttraumatic stress disorder</td>
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<tr>
<td>308.3</td>
<td>F43.0</td>
<td>Acute stress disorder</td>
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Adjustment disorders with:

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<th>Disorder, condition or problem</th>
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<td>F43.21</td>
<td>Depressed mood</td>
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<td>309.24</td>
<td>F43.22</td>
<td>With anxiety</td>
</tr>
<tr>
<td>309.28</td>
<td>F43.23</td>
<td>With mixed anxiety and depressed mood</td>
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<tr>
<td>309.3</td>
<td>F43.24</td>
<td>With disturbance of conduct</td>
</tr>
<tr>
<td>309.4</td>
<td>F43.25</td>
<td>With mixed disturbance of emotions and conduct</td>
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<tr>
<td>309.9</td>
<td>F43.20</td>
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<td>309.89</td>
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<td>309.89</td>
<td>F43.9</td>
<td>Unspecified trauma- and stressor-related disorder</td>
</tr>
</tbody>
</table>
Behavioural syndromes associated with physiological disturbances and physical factors (F50–F59)

- **F50** Eating disorders
- **F51** Nonorganic sleep disorders
- **F52** Sexual dysfunction, not caused by organic disorder or disease
- **F53** Mental and behavioral disorders associated with the puerperium, not elsewhere classified
- **F54** Psychological and behavioral factors associated with disorders or diseases classified elsewhere
- **F55** Abuse of non-dependence-producing substances
- **F59** Unspecified behavioral syndromes associated with physiological disturbances and physical factors

**CAUTION:** DSM-5 does not include F53.
In mood disorders, document if peripartum onset

[ICD-10 Online Browser](http://apps.who.int/classifications/icd10/browse/2015/en)
DSM-5 Classification

Feeding and eating disorders

<table>
<thead>
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<th>ICD-10-CM</th>
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<td>307.52</td>
<td>F98.3</td>
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<tr>
<td>307.52</td>
<td>F50.8</td>
<td>Pica in adults</td>
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<td>307.53</td>
<td>F98.21</td>
<td>Rumination disorder</td>
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<td>307.59</td>
<td>F50.8</td>
<td>Avoidant/restrictive food intake disorder</td>
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<td>307.1</td>
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<td>F50.02</td>
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<td>307.51</td>
<td>F50.8</td>
<td>Binge-eating disorder</td>
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<td>307.50</td>
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<td>Unspecified feeding or eating disorder</td>
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Disorders of adult personality and behaviour (F60–F69)

F60 Specific personality disorders
F61 Mixed and other personality disorders
F62 Enduring personality changes, not attributable to brain damage and disease
F63 Habit and impulse disorders
F64 Gender identity disorders
F65 Disorders of sexual preference
F66 Psychological and behavioural disorders associated with sexual development and orientation
F68 Other disorders of adult personality and behaviour
F69 Unspecified disorder of adult personality and behaviour

ICD-10 Online Browser (http://apps.who.int/classifications/icd10/browse/2015/en)
### DSM-5 Classification

**Personality disorders**

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<td><strong>Cluster B personality disorders</strong></td>
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<td>301.83     F60.3</td>
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<td>301.50     F60.4</td>
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<td>301.81     F60.81</td>
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<td>301.4       F60.5</td>
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<td><strong>Other personality disorders</strong></td>
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<td>310.1       F07.0</td>
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<td>301.89     F60.89</td>
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<tr>
<td></td>
<td></td>
<td>301.9       F60.9</td>
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</tbody>
</table>
Mental retardation (F70–F79)

F70  Mild mental retardation
F71  Moderate mental retardation
F72  Severe mental retardation
F73  Profound mental retardation
F78  Other mental retardation
F79  Unspecified mental retardation

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Mental retardation
(F70–F79)

4th Characters for use with categories F70-F79:

.0 No, or minimal, impairment of behaviour
.1 Significant impairment of behaviour requiring attention or treatment
.2 Other impairments of behaviour
.3 Without mention of impairment of behaviour

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Disorders of psychological development (F80–F89)

F80  Specific developmental disorders of speech and language
F81  Specific developmental disorders of scholastic skills
F82  Specific developmental disorder of motor function
F83  Mixed specific developmental disorders
F84  Pervasive developmental disorders
F88  Other disorders of psychological development
F89  Unspecified disorder of psychological development

CAUTION: DSM-5 does not include Asperger’s as independent diagnosis
Under Autism Spectrum Disorders

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Behavioural and emotional disorders with onset usually occurring in childhood and adolescence (F90–F98)

- **F90** Hyperkinetic disorders
- **F91** Conduct disorders
- **F92** Mixed disorders of conduct and emotions
- **F93** Emotional disorders with onset specific to childhood
- **F94** Disorders of social functioning with onset specific to childhood and adolescence
- **F95** Tic disorders
- **F98** Other behavioural and emotional disorders with onset usually occurring in childhood and adolescence

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
### DSM-5 Classification

#### Neurodevelopmental disorders

<table>
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<tr>
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<th>ICD-10-CM</th>
<th>Disorder, condition or problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>319</td>
<td>F70</td>
<td>Intellectual disability, mild</td>
</tr>
<tr>
<td>319</td>
<td>F71</td>
<td>Intellectual disability, moderate</td>
</tr>
<tr>
<td>319</td>
<td>F72</td>
<td>Intellectual disability, severe</td>
</tr>
<tr>
<td>319</td>
<td>F73</td>
<td>Intellectual disability, profound</td>
</tr>
<tr>
<td>315.8</td>
<td>F88</td>
<td>Global developmental delay</td>
</tr>
<tr>
<td>319</td>
<td>F79</td>
<td>Unspecified intellectual disability</td>
</tr>
</tbody>
</table>

#### Communication disorders

- Autism spectrum disorder
- Attention-deficit/hyperactivity disorder
- Specific learning disorder

#### Motor disorders

- Other neurodevelopmental disorders
Unspecified mental disorder (F99)

F99 Mental disorder, not otherwise specified
   Incl.: Mental illness NOS
   Excl.: organic mental disorder NOS (F06.9)
Frequent Mental Health Diagnoses:
General

- Anxiety disorders
- Autism spectrum disorders
- Mood related disorders
- Schizophrenia

- Number and type of new concepts not foreign to clinicians
## Most Frequent Diagnoses: Medicare-Medicaid

<table>
<thead>
<tr>
<th>Disorder</th>
<th>ICD-10 Category/Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depressive episode</td>
<td>F32</td>
</tr>
<tr>
<td>Severe depressive episode without psychotic symptoms</td>
<td>F32.2</td>
</tr>
<tr>
<td>Dementia in Alzheimer disease</td>
<td>F00*</td>
</tr>
<tr>
<td>Phobic anxiety disorders/other anxiety disorders</td>
<td>F40/F41</td>
</tr>
<tr>
<td>Schizophrenia</td>
<td>F20</td>
</tr>
<tr>
<td>Bipolar affective disorder</td>
<td>F31</td>
</tr>
<tr>
<td>ADHD</td>
<td>F90.9</td>
</tr>
<tr>
<td>Specific personality disorders</td>
<td>F60</td>
</tr>
<tr>
<td>Reaction to severe stress and adjustment disorders/PTSD</td>
<td>F43/F43.1</td>
</tr>
</tbody>
</table>

*next to a code means that etiology code precedes that code

CAUTION: Core codes non billable. At least 4 digits

Centers for Medicare and Medicaid Services
https://www.cms.gov
# Top 10 Most Frequently Reported Diagnosis Codes: BC/BS

<table>
<thead>
<tr>
<th>Disorders</th>
<th>ICD-10-CM codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dysthymic disorder</td>
<td>F34.1</td>
</tr>
<tr>
<td>Major depressive disorder, recurrent, moderate</td>
<td>F33.1</td>
</tr>
<tr>
<td>Major depressive disorder, recurrent severe without psychotic features</td>
<td>F33.2</td>
</tr>
<tr>
<td>Major depressive disorder, recurrent, in remission, unspecified</td>
<td>F33.40</td>
</tr>
<tr>
<td>Major depressive disorder, recurrent, unspecified</td>
<td>F33.9</td>
</tr>
<tr>
<td>Generalized anxiety disorder</td>
<td>F41.1</td>
</tr>
<tr>
<td>Anxiety disorder, unspecified</td>
<td>F41.9</td>
</tr>
<tr>
<td>ADHD predominantly inattentive type</td>
<td>F90.0</td>
</tr>
<tr>
<td>Adjustment disorder with depressed mood</td>
<td>F43.21</td>
</tr>
<tr>
<td>Major depressive disorder single episode, unspecified</td>
<td>F32.9</td>
</tr>
</tbody>
</table>
Overview

- ICD as an unified diagnostic system
- ICD coding history and significance
- ICD in the US
- ICD-10 description
- ICD-10. Chapter V: Mental and Behavioral Disorders
- Cultural issues in ICD-10
- Coding
- ICD and DSM (ICD-9, ICD-10 and DSM 5)
- Preview of ICD-11
# ICD and DSM

<table>
<thead>
<tr>
<th></th>
<th><strong>ICD</strong></th>
<th><strong>DSM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Developed by</td>
<td>Developed by global UN agency</td>
<td>Developed by a single national association</td>
</tr>
<tr>
<td></td>
<td>Free open resource for public health benefit</td>
<td>Provides large portion of ApA revenue</td>
</tr>
<tr>
<td></td>
<td>For countries/service providers</td>
<td>For (U.S.) behavioral health providers</td>
</tr>
<tr>
<td></td>
<td>Global, multidisciplinary, multilingual</td>
<td>U.S. Anglophone perspective</td>
</tr>
<tr>
<td></td>
<td>Approved by World Health Assembly</td>
<td>Approved by ApA board of trustees</td>
</tr>
<tr>
<td></td>
<td>Covers <em>all health</em> conditions</td>
<td>Covers only mental disorders</td>
</tr>
</tbody>
</table>

*(Goodheart, 2013; Reed, 2013)*
Interfacing of DSM & ICD

• Recall that the DSM is essentially the “borrowed” codes from ICD; DSM = descriptors of code #

• Use parallel diagnostic system to the ICD in U.S. possible due to harmonization efforts

• Few differences between ICD-9-CM and DSM-IV due to efforts to make them consistent

• DSM-5 attempts to closely parallel ICD-10-CM

• DSM has to bridge ICD-9-CM, ICD-10-CM, ICD-11 (adapted from Goodheart, 2013)
DSM-5, ICD-9-CM and ICD-10-CM

→ DSM-V contains ICD-9-CM and ICD-10-CM codes

- If one diagnostic code is assigned:
  E.g. Schizophrenia 295.90 (F20.9)

- If two diagnostic codes are assigned:
  E.g. 295.70 (F25.0) Bipolar type
  295.70 (F25.1) Depressive type
## Sample Cross-Walk: DSM-5 - ICD-9 - ICD-10

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Generalized anxiety disorder</td>
<td>300.02</td>
<td>Generalized anxiety disorder</td>
<td>F41.1</td>
<td>Generalized anxiety disorder</td>
</tr>
<tr>
<td>Panic disorder without agoraphobia</td>
<td>300.01</td>
<td>Panic disorder without agoraphobia</td>
<td>F41.0</td>
<td>Panic disorder</td>
</tr>
<tr>
<td>Panic disorder with agoraphobia</td>
<td>300.21 + 300.22</td>
<td>Agoraphobia with panic disorder</td>
<td>F40.01</td>
<td>Agoraphobia with panic disorder</td>
</tr>
<tr>
<td>Persistent depressive disorder (dysthymia)</td>
<td>300.4</td>
<td>Dysthymic disorder</td>
<td>F34.1</td>
<td>Dysthymic disorder</td>
</tr>
<tr>
<td>Schizophrenia, catatonic type</td>
<td>295.90 + A293.89</td>
<td>Catatonic type schizophrenia unspecified</td>
<td>F20.9 + F06.1</td>
<td>Catatonic schizophrenia</td>
</tr>
<tr>
<td>Bipolar I disorder, current or most recent episode manic</td>
<td>296.00</td>
<td>Bipolar I disorder single manic episode unspecified</td>
<td>F31.1x</td>
<td>Manic episode without psychotic symptoms, unspecified</td>
</tr>
<tr>
<td>Specific Learning disorder with impairment in reading</td>
<td>315.00</td>
<td>Developmental reading disorder unspecified</td>
<td>F81.0</td>
<td>Specific reading disorder</td>
</tr>
<tr>
<td>Dementia of Alzheimer’s type with early onset, uncomplicated</td>
<td>290.10</td>
<td>Presenile dementia uncomplicated</td>
<td>G30.9 + F02.80</td>
<td>Unspecified dementia without behavioral disturbance</td>
</tr>
</tbody>
</table>

<sup>1</sup> in use through September 30, 2015
<sup>2</sup> in use starting October 1, 2015
ICD-10, ICD-9, DSM Coding Structure
Sample 1: Depression

F33.2

F=Mental and Behavioral Disorders
F30-39=Mood (affective) disorders
F33=Recurrent Depressive Disorder
F33.2=Recurrent Depressive Disorder, current episode severe, without psychotic symptoms

ICD-9-CM: 296.3 Major depressive disorder, recurrent episode

DSM-5 codes: 296.33 Major depressive disorder, recurrent, severe without psychotic features

(Goodheart, 2013)
ICD-10, ICD-9, DSM Coding Structure
Sample 2: Anxiety
F40.01

F=Mental and Behavioral Disorders
F40-F48=Anxiety, dissociative, stress-related, somatoform
F40=Phobic Anxiety Disorders
F40.0=Agoraphobia
F40.01=Agoraphobia with panic disorder

ICD-9-CM/DSM-IV code: 300.21 Agoraphobia with panic disorder

DSM-5: no category combines agoraphobia and panic

CAUTION: no single code in DSM-5 combines Agoraphobia and Panic. Document both when present

(Goodheart, 2013)
DSM Vs. ICD

- ICD is a Diagnostic System
- DSM is a Descriptive System
Overview

- ICD as an unified diagnostic system
- ICD coding history and significance
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ICD-11 Changes Overview

• Priorities: clinical utility & global applicability
• 2017 World Health Assembly (WHA) adoption
• Public revision of ICD-11 contents in May 2016
• Regular (maybe yearly) updates
• Greater number of diagnostic categories, less hierarchical structure, more clinically intuitive
• New chapters on sleep disorders and sexual health
• “Mental retardation” -> Intellectual developmental disorders
• Personality disorders: severity, codification of prominent features instead of diagnostic entities.

(Adapted from Goodheart, 2013)
Mixing Locations

REHAB PSYCH- Chapter “5”

NEUROPSYCH- ALL BUT CHAPTER “5”
ICD-11: Involvement of Psychology

- Psychologists are more involved in ICD-11 than in other ICD revisions; Geoffrey Reed, Ph.D. (chair) & Pierre Ritchie, Ph.D. (board), Ann Watts, Ph.D (board)

- Mental and Behavioral Disorders (MBD) chapter revised with significant contribution from APA and International Union of Psychological Science

- APA will probably recommend the use of ICD-11 instead of DSM-5 (Suzanne Bennet-Johnson)

(Goodheart, 2013)
ICD-11: Involvement of Psychology (cont.)

• Psychologists contributed to the research foundation for the revision

• Clinical Psychologists’ attitudes about diagnoses surveyed internationally. Results will be published soon.

• Psychologists well represented in the Field Studies Coordinating Group that guides development and contributes to testing clinical utility

• Spanish psychologists can DIRECTLY participate in the development of ICD-11 materials through “Global Clinical Practice Network”

(Goodheart, 2013)
ICD-11 or DSM-5

- DSM-5 = High cost; ICD-11 = free of charge.
- ICD-11 covers all health areas. Useful, Psychology is a Health Profession.
- ICD-11 culturally adapted: Spanish and English versions developed initially. Many others will follow.
- DSM-5/ICD-11 Compatibility desirable but not going to happen (against ApA´s economic interests)
ICD-11 or DSM-5

• Criticisms to DSM-5 for over-medicalization, “psychopathologizing” daily life:
  - Benefits for pharmaceutical industry (ApA accused of conflict of interest)
  - Funds diverted from more severe conditions
  - Increase prescriptions = increase side effects on people who do not need medication
  - Dramatic increase of prevalence, difficult to manage

-> ICD-11 will not include these diagnoses
ICD-11 Beta Draft

http://apps.who.int/classifications/icd11/browse/f/en
IMPORTANT:
RARE GLIMPSE INTO ICD 11 UNCOVERED

Due to unanticipated shortage of ICD-10 codes, ICD-11 has been placed on an accelerated release schedule. Major changes include the substitution of emojis for the current alphanumerical system. (See examples below.)

- **Electrocution injury to right bicep due to use of electrical appliance in bathtub, initial encounter**
- **Spacecraft collision injuring occupant, subsequent encounter (ICD-10 equivalent: V95.43XS)**
- **Paper cut to left hand secondary to envelope stuffing at place of business, recurrent**
- **Fingernail injury incurred during fall while wearing heels at a bikini car wash, initial encounter**
- **Gunshot wound to right foot received in a bar at night, requiring surgical intervention and blood products, resulting in loss of ambulation**
- **Bitten by pig, initial encounter (ICD-10 equivalent: W55.41XA)**
Practical Steps: #1

• Download the PDF version of ICD-10-CM codes free of charge from here: [http://www.cdc.gov/nchs/icd/icd10cm.htm](http://www.cdc.gov/nchs/icd/icd10cm.htm)

• Identify the ICD-9-CM/DSM 5 most commonly used diagnostic codes in your practice.

• Find Cross-walked ICD-10 codes (e.g., [ICD10data.com](http://www.icd10data.com))

• Note that this link is NOT a browser and therefore the search will be manual

Adapted from American Psychological Association Practice Organization. *Good Practice*, Spring/Summer 2015
Practical Steps: #2

• < 09.30.15: Submit all claims for services provided before Sept. 30, 2015 using ICD-9-CM or DSM 5 codes

• > 09.30.15: On and after October 1, 2015 use only ICD-10-CM codes
Practical Steps: #3

• Carefully monitor return claims closely

• Do not expect that the DXs that have been historically reimbursed for will be reimbursed again

• Non-F codes may not be reimbursed though some LCD have listed other codes

• Consider contacting major carrier about the preceding

• Share the information as to patterns of reimbursement on listservs

• **Think globally; act locally**
Practical Steps: #4
(examples for neuropsych- note some are F and others are R codes)

<table>
<thead>
<tr>
<th>ICD-9</th>
<th>Descript.</th>
<th>ICD-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>290.10</td>
<td>Unspecified Dementia</td>
<td>F03.90</td>
</tr>
<tr>
<td>780.83</td>
<td>Retrograde amnesia</td>
<td>R41.2</td>
</tr>
<tr>
<td></td>
<td>Other amnesia</td>
<td>R41.2</td>
</tr>
</tbody>
</table>
ICD X CPT Formulary

- Formulary - Third party payors (e.g., Medicare) will have a **CPT (procedural code) X ICD (diagnostic code)** that will be the basis of:
  
  - Medical Necessity
  - Reimbursement

- Medicare - Each Medicare carrier will establish and “publish” on their website w/o announcement

- Private Payors - Each carrier will establish and NOT publish in their website (trial and error)
Billing Vs. Working Diagnosis

- Bill for the Dx being pursued on claims form.

- The initial or working diagnosis then establishes the medical necessity for subsequent assessments and interventions.

- It is new diagnosis that is used (e.g., Patient is referred for depression but evaluation discovered for dementia), bill for depression for the first visit, but use dementia from that point forward.
Diagnosing: Order & Number

- First Diagnosis: Primary
- Second Diagnosis: Next most important, and so on...
- Total # of Diagnoses: All conditions present, including those diagnosed by you and those diagnosed by other qualified health providers
Diagnosing: Assessment Vs. Treatment

- Assessment: Per previous slide, primary as discovered, then secondary and all other diagnoses

- Treatment: Per previous slide and as above but the diagnosis must match the treatment

NOTE: Primary DX in each case will determine whether the claim is “medical” or “behavioral”.
CMS & ICD-10

• 1. Claims generally not denied as long as it is in the same family of codes.

• 2. They will not penalize in 2015 in the PQRS if the appropriate family of codes is used.

• 3. Few isolated rejected claims with some LCDs. These claims were reprocessed.

• 4. CMS one-year flexibility will end 09.30.16.

• 5. Future focus on improving diagnosis coding.

• 6. Monitor EOBs to determine evolving changes.
Local Coverage Determinations (LCDs)

- Contractor Index
  

- State Index
  

- Alphabetical Index
  
Carrier Examples

- **NOVITAS:**
  

- **CIGNA:**
  
  https://cignaforhcp.cigna.com/public/content/pdf/coveragePolicies/medical/mm_0258_coveragepositioncriteria_neuropsychological_testing.pdf

- **AETNA:**
  
  http://www.aetna.com/cpb/medical/data/100_199/0158.html

(NOTE: Neuropsychological testing is covered for the following types of diagnosis- F; NP testing is covered for F, G as well as some I, Q, R and S codes.)
HCFA 1500

- Number of places for DX has gone from 6 to 12.
- Primary code and, if appropriate or necessary, the parent code following
- Current version is v02/12
- Includes an ICD Indicator in Field 21
- Use “9” for filing a claim with ICD-9 Codes (before 9/30/15)
- Use “0” for filing a claim with ICD-10 Codes (on and after 10/1/15)
To be Determined

- Core codes, more than three, or full seven digits? How deep do you for billing and for reports?
- Besides Chapter 5 (F), what other chapters can and should be used?
- What about the use of non-F codes for neuropsychological and health psychology situations?
- What about parent codes?
- Some traditional DXs may not be present or covered (G31.84 or MCI)

BOTTOM LINE: FORMULARY OF CPT X ICD

ICD-10-CM is the standard for billing

Valid codes can be 3-7 digits:
F = 3-7 digits;
S = 7 digits
CERTIFICATE OF PARTICIPATION

Please download your certificate here:

Useful Resources

WHO ICD-10 Description:
http://www.who.int/classifications/icd/en/

WHO “Bluebook”:

ICD-10 Browser:
http://apps.who.int/classifications/icd10/browse/2015/en

ICD-10 Interactive Self Learning Tool:
http://apps.who.int/classifications/apps/icd/icd10training/

ICD-10 Online Support:
https://sites.google.com/site/icd10onlinetraining/

Transition to the ICD-10-CM, APA Practice Central:
http://www.apapracticecentral.org/update/2012/02-09/transition.aspx

ICD-10 Code Transition, Magellan Healthcare:

National Council for Behavioral Health:
http://www.thenationalcouncil.org/topics/coding-behavioral-health-services/

Centers for Medicare and Medicaid Services:
http://www.cms.gov/Medicare/Coding/ICD10/ProviderResources.html
Useful Resources (Cont.)

CMS Road to 10
http://www.roadto10.org/
http://www.roadto10.org/webcasts/

AAPC ICD-10 Training:
https://www.aapc.com/icd-10/training.aspx

ICD-10-CM/PCS Basics for Clinical Documentation Improvement, American Health Information Management Association Library,

ICD-10 and DSM-5 Frequently Asked Questions, Minnesota Department of Human Services:

Understanding ICD-10-CM and DSM-5, American Psychiatric Association:
https://www.appi.org/File%20Library/Products APP_DSM5_Resources_Understanding_ICD.pdf

Understanding ICD-10:

Understanding the ICD-10 The Clinician’s Toolbox:

DSM-5 to ICD-9 Crosswalk, Alliance Behavioral Healthcare:

DSM-5 and ICD-10 Resources, Optum:
Useful Resources (Cont.)

ICD 9/10 Crosswalk:

http://ncmmis.ncdhhs.gov/icdxwalk.asp

http://icd10cmcode.com


ICD 9/10 Conversion:

http://www.icd10data.com

DSM-V:
http://eahec.ecu.edu/brochures/e43633.pdf

Medical billing and coding ICD-10:
https://www.encoderpro.com/epro/
Useful Links

American Psychological Association
(Members only through my.apa.org login)

ICD10Data.com

UnitedHealthcare

ICDNavigator

athenahealth
Useful Apps

iOS & Android

MTBC ICD 9-10
Codes by Specialty

Quick ICD 10
Simple conversion, no details

DxCodeMapper
Detailed descriptions of codes

ICD10 Consult
Ideal for Physicians
Useful Apps

iOS
- ICD-10 HCPCS ICD-9
- ICD-10 On the Go Medical Codes
- ICD-10 Free
- ICD-10 Codes Free

Android
- ICD-10 & ICD-9 Code Reference
- ICD-10 Navigator
- ICD-10
- ICD-10: Codes of Diseases
ICD 10 Primer: Carol Goodheart

- *A Primer for ICD-10-CM Users: Psychological and Behavioral Conditions Cover of A Primer for ICD-10-CM Users*

- List Price: $19.95

- American Psychological Association

- Member/Affiliate Price: $14.95

- Pages: 171

- Item #: 4317336

- ISBN: 978-1-4338-1709-0

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Chapter VI: Diseases of the Nervous System

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G00-G99</td>
<td>Mental, Behavioral and Neurodevelopmental Disorders</td>
</tr>
<tr>
<td>G00-G09</td>
<td>Inflammatory diseases of the central nervous system</td>
</tr>
<tr>
<td>G10-G14</td>
<td>Systemic atrophies primarily affecting the central nervous system</td>
</tr>
<tr>
<td>G20-G26</td>
<td>Extrapyramidal and movement disorders</td>
</tr>
<tr>
<td>G30-G32</td>
<td>Other degenerative diseases of the nervous system</td>
</tr>
<tr>
<td>G35-G37</td>
<td>Demyelinating diseases of the central nervous system</td>
</tr>
<tr>
<td>G40-G47</td>
<td>Episodic and paroxysmal disorders</td>
</tr>
<tr>
<td>G50-G59</td>
<td>Nerve, nerve root and plexus disorders</td>
</tr>
<tr>
<td>G60-G64</td>
<td>Polyneuropathies and other disorders of the peripheral nervous system</td>
</tr>
<tr>
<td>G70-G73</td>
<td>Diseases of myoneural junction and muscle</td>
</tr>
<tr>
<td>G80-G83</td>
<td>Cerebral palsy and other paralytic syndromes</td>
</tr>
<tr>
<td>G90-G99</td>
<td>Other disorders of the nervous system</td>
</tr>
</tbody>
</table>

ICD-10 Interactive Self Learning Tool
(http://apps.who.int/classifications/apps/icd/icd10training/)
Inflammatory diseases of the central nervous system (G00-G09)

G00  Bacterial meningitis, not elsewhere classified
G01  Meningitis in bacterial diseases classified elsewhere
G02  Meningitis in other infectious and parasitic diseases classified elsewhere
G03  Meningitis due to other and unspecified causes
G04  Encephalitis, myelitis and encephalomyelitis
G05  Encephalitis, myelitis and encephalomyelitis in diseases classified elsewhere
G06  Intracranial and intraspinal abscess and granuloma
G07  Intracranial and intraspinal abscess and granuloma in diseases classified elsewhere
G08  Intracranial and intraspinal phlebitis and thrombophlebitis
G09  Sequelae of inflammatory diseases of central nervous system

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Systemic atrophies primarily affecting the central nervous system (G10-G14)

**G10** Huntington disease

**G11** Hereditary ataxia

**G12** Spinal muscular atrophy and related syndromes

**G13** Systemic atrophies primarily affecting central nervous system in diseases classified elsewhere

**G14** Postpolio syndrome

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Extrapyramidal and movement disorders (G20-G26)

G20  Parkinson disease
G21  Secondary parkinsonism
G22  Parkinsonism in diseases classified elsewhere
G23  Other degenerative diseases of basal ganglia
G24  Dystonia
G25  Other extrapyramidal and movement disorders
G26  Extrapyramidal and movement disorders in diseases classified elsewhere
Demyelinating diseases of the central nervous system (G35-G37)

G35  Multiple sclerosis

G36  Other acute disseminated demyelination

G37  Other demyelinating diseases of central nervous system
Episodic and paroxysmal disorders (G40-G47)

G40 Epilepsy
G41 Status epilepticus
G43 Migraine
G44 Other headache syndromes
G45 Transient cerebral ischaemic attacks and related syndromes
G46 Vascular syndromes of brain in cerebrovascular diseases
G47 Sleep disorders

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Nerve, nerve root and plexus disorders (G50-G59)

G50 Disorders of trigeminal nerve
G51 Facial nerve disorders
G52 Disorders of other cranial nerves
G53 Cranial nerve disorders in diseases classified elsewhere
G54 Nerve root and plexus disorders
G55 Nerve root and plexus compressions in diseases classified elsewhere
G56 Mononeuropathies of upper limb
G57 Mononeuropathies of lower limb
G58 Other Mononeuropathies
G59 Mononeuropathies in diseases classified elsewhere

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)
Polyneuropathies and other disorders of the peripheral nervous system (G60-G64)

G60  Hereditary and idiopathic neuropathy
G61  Inflammatory polyneuropathy
G62  Other polyneuropathies
G63  Polyneuropathy in diseases classified elsewhere
G64  Other disorders of peripheral nervous system
Diseases of myoneural junction and muscle (G70-G73)

G70  Myasthenia gravis and other myoneural disorders
G71  Primary disorders of muscles
G72  Other myopathies
G73  Disorders of myoneural junction and muscle in diseases classified elsewhere
Cerebral palsy and other paralytic syndromes (G80-G83)

G80  Cerebral palsy
G81  Hemiplegia
G82  Paraplegia and tetraplegia
G83  Other paralytic syndromes
Other disorders of the nervous system (G90-G99)

G90  Disorders of autonomic nervous system
G91  Hydrocephalus
G92  Toxic encephalopathy
G93  Other disorders of brain
G94  Other disorders of brain in diseases classified elsewhere
G95  Other diseases of spinal cord
G96  Other disorders of central nervous system
G97  Postprocedural disorders of nervous system, not elsewhere classified
G98  Other disorders of nervous system, not elsewhere classified
G99  Other disorders of nervous system in diseases classified elsewhere

ICD-10 Online Browser
(http://apps.who.int/classifications/icd10/browse/2015/en)